REMARKS

Claims 8-25 are pending in the application. New claim 26 is presented herein.

Reconsideration of the rejection of claims 8-15, and 20-25 under 35 U.S.C. 103(a) as

being unpatentable over US 7,017,335 to Huber et al in view of US 7,263,972 to Tokuda et al

is respectfully requested.

Claim 8 is directed to an apparatus for introducing a reducing agent containing urea into

the exhaust of an internal combustion engine, the apparatus comprising

a reservoir.

a delivery unit,

a flow path for the reducing agent, the flow path leading from the reservoir to the

delivery unit,

a ventilation device for ventilating at least one region of the flow path, the ventilation

device being disposed in the flow path and being situated at a geodetic high point of the flow

path,

a ventilation opening in the ventilation device that always permits a return of a minimal

fluid quantity to the reservoir, and

a ventilation return line connecting the ventilation opening and the reservoir.

Huber et al discloses a reservoir (1), a delivery unit (4), a flow path (1a) for the reducing

agent, a filter (3), and a ventilation device in the form of a metering valve (7). However, Huber

et al fails to disclose the ventilation device being situated at a geodetic high point of the flow

path.

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Tokuda et al is relied upon for teaching an apparatus for supplying fuel of an internal

combustion engine with a ventilation device (210) being situated at a geodetic high point of the

flow path (220). The examiner asserts that it would have been recognized by one of ordinary

skill in the art at the time the invention was made, that applying the known technique of using

a ventilation device being situated at a geodetic high point of the flow path, as taught by Tokuda

to the exhaust purifying system of Huber, would have yielded predicable results and resulted in

an improved system for increasing the pressure of reducing agent supplying to the exhaust gas

system of an internal combustion engine more accurate, to further improve the performance of

the engine and the efficiency of the NOx catalyst system.

However, even if the examiner's combination of the references is proper, contrary to the

examiner's position, the metering valve (7) of Huber et al cannot permit a return to the reservoir, as recited in claim 8, as there is no return line leading from the valve (7) to the reservoir (1).

Applicant disagrees with the examiner's position that Huber discloses the ventilation

device having: a float valve, at least not expressly although implied; a solenoid valve; or a flow

throttle.

More particularly, Huber does not explicitly disclose that metering valve (7) is a venting

device. Column 3, lines 58 and 59, only disclose that "venting procedures may be executed via

metering valve (7)". It is not clear whether metering valve (7) itself may constitute a venting

valve or whether a separate venting valve is controlled via metering valve (7).

Further, it is rather evident that metering valve (7) cannot be situated at a geodetic high

point of the flow path, since it must be situated close to the mixing chamber and the exhaust

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path, which in most cases are situated at a geodetic low point of the flow path. Therefore, the

skilled person is not motivated to place metering valve (7) at another geodetic position.

Furthermore, with regard to the Tokuda reference, Applicant disagrees with the interpretation that valve (210) represents a ventilation device. Tokuda discloses a fuel system

having a low-pressure part (low-pressure rail 160) and a high-pressure part (high-pressure rail

130). As explained in column 12, lines 11 to 20, high-pressure rail 130 is connected on its

downstream side with an "electromagnetic relief valve 210". Electromagnetic relief valve 210

is opened in response to a control signal from ECU 300, and guides the fuel within high-pressure

delivery pipe 130 to fuel return pipe 220. As is explained in column 12, lines 36 to 38, of

Tokuda, electromagnetic relief valve 210 corresponds to a "pressure release means." However,

a pressure release means that guides fuel back to fuel return pipe 220 and further back to fuel

reservoir 200 is not a ventilation device which is provided in order to remove air from at least

one region of the flow path. By consequence, Tokuda does not disclose a ventilation device.

Further, it is clear that figure 2 of Tokuda does not represent the geodetic relationships

of the components of the fuel system, e.g. it is very unlikely that ECU 300 is situated

geodetically even lower than fuel reservoir 200. Further, it is very unlikely that intake manifold

injectors 120 are situated geodetically lower than in-cylinder injectors 110. Rather, in most

combustion engines, the intake manifold is situated geodetically higher than the cylinders. By

consequence, there is no disclosure found that electromagnetic relief valve 210 is situated at a

geodetic high point of the flow path.

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It appears that the examiner has ignored the last feature of claim 8 wherein a ventilation

opening in the ventilation device is provided that always permits a return of a minimal fluid

quantity to the reservoir, since no remark was found in the Office Action with regard to this

feature. Neither metering valve 7 of Huber nor electromagnetic relief valve 210 of Tokuda

provide such a venting opening. Especially in the fuel system of Tokuda such an opening would

considerably reduce the efficiency of the fuel system, since high-pressure fuel would

continuously be led from high-pressure rail 130 back to reservoir 200 — without any sense.

Therefore, Applicant believes that the present invention is clearly patentable over Huber

et al in view Tokuda et al, and that the current claims are distinguished over the prior art.

Therefore, withdrawal of the rejection is respectfully requested.

Reconsideration of the rejection of claims 16-19 under 35 U.S. C 103(a) as being

unpatentable over Huber in view of Tokuda, and further in view of design choice is respectfully

requested.

The examiner finds that Huber in view of Tokuda discloses all the claimed limitation as

except the filter being able to operate in two different installation positions that differ from each  $% \left( x\right) =\left( x\right) +\left( x$ 

other by approximately 90° and the ventilation device being situated at an angle of

approximately 45° between the two installation positions.

The examiner continues that it would have been an obvious matter of design choice well

within the level of ordinary skill in the art, to arrive at the claimed arrangement.

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The present application differs from the prior art because the metering device of Huber

lacks a return to the reservoir, as discussed above. Neither Huber et al nor Tokuda et al taken

alone or when combined disclose or suggest the recited elements of claim 8 as discussed above.

Therefore, Applicant believes that the present invention cannot be unpatentable over

Huber et al in view Tokuda et al, and that the current claims are distinguished over the prior art.

Therefore, withdrawal of the rejection and allowance of the claims is respectfully requested.

New claim 26 which is presented herein is an independent claim combining the subject

matter of current claims 8 and 9. Allowance of new claim 26 is respectfully requested.

The above amendments are being made to place the application in better condition for

Entry of the amendment is respectfully solicited.

Respectfully submitter

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